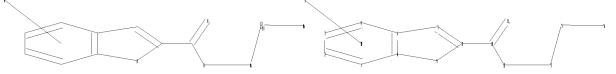
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Uploading C:\Program Files\STNEXP\Queries\10-597,753 plus link-Hy O on indene.str



chain nodes : 10 11 12 13 15 16 19 ring nodes : 1 2 3 4 5 6 7 8 9 chain bonds : 10-12 12-13 13-15 15-16 8-10 10-11 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9exact/norm bonds : 5-7 6-9 7-8 8-9 10-11 10-12 15-16 exact bonds : 8-10 12-13 13-15 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 isolated ring systems : containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:CLASS 13:Atom 15:CLASS 16:Atom 19:CLASS 20:Atom

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 18 sss sam

SAMPLE SEARCH INITIATED 15:56:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 20695 TO ITERATE

9.7% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 405285 TO 422515

L9 0 SEA SSS SAM L8

=> s 18 sss full

FULL SEARCH INITIATED 15:56:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 412240 TO ITERATE

100.0% PROCESSED 412240 ITERATIONS 60 ANSWERS

SEARCH TIME: 00.00.15

L10 60 SEA SSS FUL L8

=> FIL CAPLUS

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 186.84 617.14

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -32.80

FILE 'CAPLUS' ENTERED AT 15:57:41 ON 13 OCT 2009
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FILE COVERS 1907 - 13 Oct 2009 VOL 151 ISS 16

FILE LAST UPDATED: 12 Oct 2009 (20091012/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 110

L11 7 L10

=> d ibib abs hitstr 1-YOU HAVE REQUESTED DATA FROM 7 ANSWERS - CONTINUE? Y/(N):y

L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2008:1045236 CAPLUS <<LOGINID::20091013>>

DOCUMENT NUMBER: 149:307680

TITLE: Preparation of N-piperidinylethylcyclohexyl

indolecarboxamide derivatives as inhibitors of

chemokine receptors or macrophage protein

INVENTOR(S): Hersperger, Rene; Janser, Philipp; Miltz, Wolfgang

PATENT ASSIGNEE(S): Novartis AG, Switz. SOURCE: PCT Int. Appl., 70pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						KIND DATE				APPL	ICAT						
	WO 2008101905					A1	_	20080828			WO 2008-EP51951					200		
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	KR	20093	1039	43		A		2009	1001		KR 2	009-	7170	79		2	0080	218
PRIORITY APPLN. INFO.:										EP 2	007-	1026	22	i	A 2	0070	219	
											WO 2	008-	EP51	951	Ī	w 2	0080	218
OTHER	OTHER SOURCE(S).							1/19 •	30769	8 0								

OTHER SOURCE(S): MARPAT 149:307680

GI

- AB Title compds. represented by the formula I [wherein X = CH2 or NH; n = 1 or 2; R = (un)substituted (hetero)alkyl or (hetero)aryl; and pharmaceutically acceptable salts, esters or prodrugs thereof] were prepared as inhibitors of chemokine receptors or macrophage protein. The process of preparation of the invention compds. was described, 29 final compound were obtained, such as II. I had IC50 values between 0.0002 and 10 μ M in CCR2/CCR5 membrane and functional assay. Thus, I and their pharmaceutical compns. are useful for the treatment of an autoimmune or inflammatory disease or condition.
- IT 1050425-64-3P

RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-[(piperidinyl)ethylcyclohexyl] indole-2-carboxamide derivs. as inhibitors of chemokine receptors or macrophage protein)

RN 1050425-64-3 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(cyclobutylmethoxy)-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-, hydrochloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

RN

HC1

ΤТ 1050424-98-0P 1050425-00-7P 1050425-01-8P 1050425-03-0P 1050425-05-2P 1050425-08-5P 1050425-12-1P 1050425-15-4P 1050425-18-7P 1050425-21-2P 1050425-23-4P 1050425-24-5P 1050425-26-7P 1050425-29-0P 1050425-31-4P 1050425-34-7P 1050425-36-9P 1050425-37-0P 1050425-40-5P 1050425-43-8P 1050425-45-0P 1050425-48-3P 1050425-51-8P 1050425-53-0P 1050425-54-1P 1050425-55-2P 1050425-56-3P 1050425-59-6P 1050425-61-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-[(piperidinyl)ethylcyclohexyl] indole-2-carboxamide derivs. as inhibitors of chemokine receptors or macrophage protein) 1050424-98-0 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(cyclobutylmethoxy)-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-00-7 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(tetrahydro-3-furanyl)methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-01-8 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(3-furanylmethoxy)-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

RN 1050425-03-0 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(2-chloro-4-thiazolyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-05-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(6-methoxy-3-pyridinyl)methoxy]- (CA INDEX NAME)

RN 1050425-08-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(4,5,6,7-tetrahydro-4-oxo-3-benzofuranyl)methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-12-1 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(4,5,6,7-tetrahydro-6,6-dimethyl-4-oxo-3-benzofuranyl)methoxy]- (CA INDEX NAME)

RN 1050425-15-4 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[(3S)-2,3-dihydro-3-benzofuranyl]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-18-7 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(2,3-dihydro-6-methoxy-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

RN 1050425-21-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(4-methoxy-3-benzofuranyl)methoxy]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-23-4 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(4,6-difluoro-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

 ${\tt Absolute \ stereochemistry.}$

RN 1050425-24-5 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(5-chloro-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-26-7 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(6-methoxy-3-benzofuranyl)methoxy]-(CA INDEX NAME)

RN 1050425-29-0 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(6-ethoxy-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-31-4 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[6-(cyclopropylmethoxy)-3-benzofuranyl]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

PAGE 1-B

RN 1050425-34-7 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[6-(2-ethoxyethoxy)-3-benzofuranyl]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

PAGE 1-B

OEt

RN 1050425-36-9 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-(2-methoxy-1-methylethoxy)-3-benzofuranyl]methoxy]- (CA INDEX NAME)

OMe

RN 1050425-37-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-[2-(1-methylethoxy)ethoxy]-3-benzofuranyl]methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

OPr-i

RN 1050425-40-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-(3-methoxypropoxy)-3-benzofuranyl]methoxy]- (CA INDEX NAME)

RN 1050425-43-8 CAPLUS
CN 1H-Indole-2-carboxamide, 4-[[6-(3-ethoxypropoxy)-3-benzofuranyl]methoxy]-N[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

$$-(CH2)3$$
OEt

RN 1050425-45-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-[[(3S)-tetrahydro-3-furanyl]oxy]-3-benzofuranyl]methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 1050425-48-3 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(6-fluoro-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

RN 1050425-51-8 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(7-methoxy-3-benzofuranyl)methoxy]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-53-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(2-methoxyphenyl)ethoxy]- (CA INDEX NAME)

RN 1050425-54-1 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(3-methoxyphenyl)ethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-55-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(4-methoxyphenyl)ethoxy]- (CA INDEX NAME)

RN 1050425-56-3 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(2-methoxy-3-pyridinyl)ethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-59-6 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(6-methoxy-3-pyridinyl)ethoxy]- (CA INDEX NAME)

RN 1050425-61-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(6-methoxy-3-benzofuranyl)ethoxy]-(CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1271554 CAPLUS <<LOGINID::20091013>>

DOCUMENT NUMBER: 147:522099

TITLE: Aminomethylcyclohexyl carboxamide compounds that are

agonists of muscarinic receptors and that may be

effective in treating pain, Alzheimer's disease and/or

schizophrenia and their preparation

INVENTOR(S): Cheng, Yun-Xing; Luo, Xuehong; Tomaszewski, Miroslaw

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 237 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO.						KIND DATE			APP	LICA		DATE				
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CA	2650	914			A1		2007	1108	i	CA	2007	-2650	914		2	0070	427
EP	2024	359			A1 20090218			0218	EP 2007-748074								
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ORITY APPLN. INFO.:										US	2006	-7461	87P		P 2	0060	502
									•	WO	2007	-SE40	9		W 2	0070	427

OTHER SOURCE(S): MARPAT 147:522099

GΙ

AB Compds. of formula I, or pharmaceutically acceptable salts thereof, as well as salts and pharmaceutical compns. including the compds. are prepared They are useful in therapy, in particular in the management of pain. Compds. of formula I wherein R1 is (un)substituted C6-10 aryl, (un) substituted C2-9 heteroaryl, (un) substituted C3-5 heterocycloalkyl, (un) substituted C1-6 alkyl, etc.; R2 and R3 are independently (un) substituted C1-6 alkyl, (un) substituted C2-6 alkenyl, and (un) substituted C1-6 alkoxy; R2R3 taken together with N to form (un) substituted heterocycloalkyl; X is CO, CONH, CO2, and SO2; and their pharmaceutically acceptable salts, diastereomers, enantiomers and mixts. thereof, are claimed. Example compound II • TFA was prepared by reductive amination fo 2-(piperidin-1-ylmethyl)cyclohexanone; the resulting [2-(piperidin-1-ylmethyl)cyclohexyl]amine underwent acylation with benzyl chloroformate to give trans-[2-(piperidin-1-ylmethyl)cyclohexyl]carbamate, which underwent hydrogenation to give trans-[2-(piperidin-1-ylmethyl)cyclohexyl]amine, which underwent benzoylation with 4-fluorobenzoyl chloride to give II. TFA. All the invention compds. were evaluated for their muscarinic receptor agonistic activity (some data given).

IT 956321-13-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aminomethylcyclohexyl carboxamide derivs. muscarinic receptor agonists useful in treatment of pain, Alzheimer's disease and schizophrenia)

RN 956321-13-4 CAPLUS

CN 1H-Indole-2-carboxamide, 5-methoxy-N-[(1R,2S)-2-(1-piperidinylmethyl)cyclohexyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:944130 CAPLUS <<LOGINID::20091013>>

DOCUMENT NUMBER: 147:300997

TITLE: Benzoyl-piperidine derivatives as 5HT2/D3 modulators

and their preparation, pharmaceutical compositions and

use in the treatment of CNS disorders

INVENTOR(S): Gobbi, Luca; Jaeschke, Georg; Luebbers, Thomas; Roche,

Olivier; Rodriguez Sarmiento, Rosa Maria; Steward,

Lucinda

PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.

SOURCE: PCT Int. Appl., 164pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'							KIND DATE			APPLICATION NO.						DATE			
WO	2007093540														20070207				
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		•	•								, IN		•				•		
		KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LI	LU,	LV,	LY,	MA,	MD,	MG,	MK,		
		MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NC	, NZ	OM,	PG,	PH,	PL,	PT,	RO,		
		RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM	1, SV	SY,	ТJ,	TM,	TN,	TR,	TT,		
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZN	1, ZW								
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE	E, ES	FI,	FR,	GB,	GR,	HU,	ΙE,		
		IS,	ΙT,	LT,	LU,	LV,	MC,	NL,	PL,	PΊ	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,		
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	MI	, MR	NE,	SN,	TD,	ΤG,	BW,	GH,		
		GM,	ΚE,	LS,	MW,	MΖ,	NA,	SD,	SL,	SZ	Z, TZ	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,		
		KG,	KΖ,	MD,	RU,	ТJ,	$_{ m TM}$												
AU	2007	2165	63		A1		2007	0823		ΑU	2007	-2165	63		2	0070	207		
CA	2640	807			A1		2007	0823		CA	2007	-2640	807		2	0070	207		
EP	1987	019			A1		2008	1105		ΕP	2007	-7044	16		2	0070	207		
	R:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	ΕE	E, ES	FI,	FR,	GB,	GR,	HU,	IE,		
		IS,	ΙΤ,	LI,	LT,	LU,	LV,	MC,	ΝL,	PΙ	J, PT	RO,	SE,	SI,	SK,	TR			
JP	2009	5268	07		${ m T}$		2009	0723		JΡ	2008	-5547	38		2	0070	207		
	2007										2007								
	2008																		
	2008										2008	-					-		
_	1013				А		2009			CN	2007	-8000	5790		2	0080			
	2008		-		А		2008			ИО	2008	-3584			2	0080	-		
	2008				Α		2008	1029			2008					0080			
RIORIT	CORITY APPLN. INFO.:										2006								
											2006		-			0060			
										WO	2007	-EP51	160		W 2	0070	207		
HER S	DURCE	(S):	HER SOURCE(S):						97										

OTHER SOURCE(S): MARPAT 147:300997

GΙ

$$(CH_2)_n - Z - (CH_2)_m - NH$$

O

R

R

A

The invention relates to compds. of the general formula I as dual modulators of the 5-HT2a and D3 receptors useful against CNS disorders. Compds. of formula I wherein A is (un) substituted aryl and (un) substituted 5- to 6-membered heteroaryl; n is 1, 2, 3, and 4; r is 0, 1, 2, and 3; Z is cyclopropane, cyclobutane, cyclopentane, and cyclohexane; R1 is C2-6 (aryl)alkenyl, C2-6 (aryl)alkynyl, (un) substituted C1-6 alkyl, C1-6 alkoxy, (un) substituted C3-10 cycloalkyl, etc.; R2 is H, OH, C1-6 alkyl, and halo; and their pharmaceutically acceptable salts thereof are claimed. Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their 5HT2a and D3 modulatory activity (some data given). Examples of formulation is also given.

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of benzoyl-piperidine derivs. as 5HT2/D3 modulators useful in the treatment of CNS disorders)

RN 946596-46-9 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-[4-(4-fluorobenzoy1)-1-piperidiny1]ethyl]cyclohexyl]-5-(trifluoromethoxy)- (CA INDEX NAME)

Relative stereochemistry.

$$F_3C$$

PAGE 1-B

RN 946596-47-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]cyclohexyl]-5-methoxy- (CA INDEX NAME)

Relative stereochemistry.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:343073 CAPLUS <<LOGINID::20091013>>

DOCUMENT NUMBER: 144:390734

TITLE: Preparation of 2-arylcarboxamide-nitrogenous

heterocycle compounds as melanin concentrating hormone

receptor antagonists

INVENTOR(S): Suzuki, Takao; Moriya, Minoru; Sakuraba, Shunji;

Mizutani, Sayaka; Iwaasa, Hisashi; Kanatani, Akio

PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd, Japan

SOURCE: PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT	NO.			KIN	D	DATE			APP:	LICAT		DATE				
WO	WO 2006038680				A1	_	2006	0413		WO :	2005-		20050930				
	W:	ΑE,	ΑG,	AL,	ΑM,	ΑT,	ΑU,	ΑZ,	BA,	BB	, BG,	BR,	BW,	BY,	BΖ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP,	KE,	KG,	KM,	KP,	KR,	KΖ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA	, MD,	MG,	MK,	MN,	MW,	MX,	MZ,
											, PT,						
		SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT	, TZ,	UA,	UG,	US,	UΖ,	VC,	VN,
		YU,	ZA,	ZM,	ZW												
	RW:	ΑT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE	, ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙT,	LT,	LU,	LV,	MC,	NL,	PL,	PT	, RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML	, MR,	ΝE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	KE,	LS,	MW,	MΖ,	NA,	SD,	SL,	SZ	, TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KΖ,	MD,	RU,	ТJ,	TM										
AU	2005	2904	36		A1		2006	20060413 AU				AU 2005-290436					930
CA	2582	327			A1		20060413			CA :	2005-	2582	327		2	0050	930
EP	1798	221			A1		20070620			EP :	2005-	7903	83		2	0050	930
	R:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	, ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙΤ,	LI,	LT,	LU,	LV,	MC,	NL,	PL	, PT,	RO,	SE,	SI,	SK,	TR	
CN	1010	6535	6		Α		2007	1031		CN :	2005-	8004	0879		2	0050	930
US	2007	0299	070		A1		2007	1227		US :	2007-	6630	38		2	0070	315
US	7531	668			В2		2009	0512									
IN	2007	DN02								IN :	2007-	DN25	46		2	0070	404
RIORIT	Y APP	LN.	INFO	.:						JP :	2004-	2898	25	,	A 2	0041	001
										WO :	2005-	JP18	581		W 2	0050	930
THER S	OURCE	(S):			MARI	PAT	144:	3907	34								

OTHER SOURCE(S): MARPAT 144:390734
GI

AB Title compds. I [R1, R2 = optionally substituted alkyl with R5, optionally substituted cycloalkyl with R6, optionally substituted heterocycloalkyl with R6; further details on R1 and R2 are given.; R3a, R3b = H, optionally substituted alkyl with R5; R4 = H, halo, optionally substituted alkyl with R5, etc.; R5 = H, halo, cyano, etc.; R6 = R5, oxo; X = -N-, -C(R3c)-; R3c = same as R3a; Y1 = single bond, optionally substituted alkylene with alkyl, optionally substituted oxyalkylene with alkyl, etc.; Y2 = optionally substituted alkylene with alkyl, optionally substituted oxyalkylene with alkyl; Ar1 = optionally substituted divalent monocyclic aromatic carbocycle with R5, optionally substituted divalent monocyclic aromatic

heterocycle with R5; Ar2 = optionally substituted aromatic carbocycle with R5, optionally substituted aromatic heterocycle with R5] were prepared For example, HATU mediated amidation of 5-benzyloxyindole-2-carboxylic acid with 4-(morpholinomethyl)aniline·2HCl, e.g., prepared from morpholine in 2 steps, afforded compound II. In MCH (melanin concentrating hormone) binding

inhibition assays, the IC50 value of compound II hydrochloride was 9.6 nM. Compds. I are claimed useful for the treatment of diabetes, obesity, etc. 882873-21-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of 2-arylcarboxamide-nitrogenous heterocycle compds. as melanin concentrating hormone receptor antagonists for treatment

of

of

ΙT

diabetes, obesity, etc.)

RN 882873-21-4 CAPLUS

CN 1H-Indole-2-carboxamide, N-[4-(4-morpholinylmethyl)phenyl]-5-(phenylmethoxy)- (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ N & C - NH \end{array}$$

IT 882873-20-3P 882873-34-9P 882873-46-3P 882873-47-4P 882873-55-4P 882873-56-5P 882873-57-6P 882873-63-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of 2-arylcarboxamide-nitrogenous heterocycle compds. as melanin concentrating hormone receptor antagonists for treatment

diabetes, obesity, etc.)

RN 882873-20-3 CAPLUS

CN 1H-Indole-2-carboxamide, N-[4-(4-morpholinylmethyl)phenyl]-5-(phenylmethoxy)-, hydrochloride (1:1) (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ N & C - NH \end{array}$$

● HCl

RN 882873-34-9 CAPLUS

CN 1H-Indole-2-carboxamide, N-[3-methoxy-4-(4-morpholinylmethyl)phenyl]-5-(phenylmethoxy)- (CA INDEX NAME)

$$\begin{array}{c|c} & \text{OMe} \\ & \text{H} & \text{O} \\ & \text{N} & \text{C-NH} \end{array}$$

RN 882873-46-3 CAPLUS

CN 1H-Indole-2-carboxamide, N-[4-[(4-methoxy-1-piperidinyl)methyl]phenyl]-5-(phenylmethoxy)- (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ \hline N & C-NH \end{array}$$
 OMe

RN 882873-47-4 CAPLUS

CN 1H-Indole-2-carboxamide, N-[4-[(4-methoxy-1-piperidinyl)methyl]phenyl]-5-(phenylmethoxy)-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 882873-46-3 CMF C29 H31 N3 O3

$$\begin{array}{c|c} H & O \\ N & C - NH \end{array} \qquad \begin{array}{c} CH_2 - N \\ O \\ OMe \end{array}$$

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 882873-54-3 CAPLUS

CN 1H-Indole-2-carboxamide, 5-(phenylmethoxy)-N-[4-(1-piperidinylmethyl)phenyl]- (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ N & C - NH \end{array}$$

RN 882873-55-4 CAPLUS

CN 1H-Indole-2-carboxamide, 5-(phenylmethoxy)-N-[4-(1-piperidinylmethyl)phenyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 882873-54-3 CMF C28 H29 N3 O2

$$\begin{array}{c|c} H & O \\ N & C-NH \end{array}$$

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 882873-56-5 CAPLUS

CN 1H-Indole-2-carboxamide, 5-(phenylmethoxy)-N-[4-(1-pyrrolidinylmethyl)phenyl]- (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ N & C - NH \end{array}$$

RN 882873-57-6 CAPLUS

CN 1H-Indole-2-carboxamide, 5-(phenylmethoxy)-N-[4-(1-pyrrolidinylmethyl)phenyl]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 882873-56-5 CMF C27 H27 N3 O2

$$\begin{array}{c|c} H & O \\ \hline H & C \\ \hline \end{array}$$

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 882873-63-4 CAPLUS

CN 1H-Indole-2-carboxamide, N-[4-[1-(4-morpholinyl)ethyl]phenyl]-5-(phenylmethoxy)- (CA INDEX NAME)

THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 10 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

2005:902881 CAPLUS <<LOGINID::20091013>> ACCESSION NUMBER:

DOCUMENT NUMBER: 143:248292

TITLE: Preparation of 1H-indole-2-carboxylic acid

N-(piperidin-4-yl)amides and related derivatives as

chemokine receptor, particularly CCR2 and CCR5

antagonists

INVENTOR(S): Hersperger, Rene; Janser, Philipp; Pfenninger, Emil;

Wuethrich, Hans Juerg; Miltz, Wolfgang

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

SOURCE: PCT Int. Appl., 240 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.						KIND DATE		APPLICATION NO.										
								WO 2005-EP1362										
WO					A3 20051208													
	W:						ΑU,											
							DE,											
							ID,											
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	${ m MZ}$,	NΑ,	NΙ,	
							PL,											
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW,	SM
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	
							RU,											
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IS,	ΙΤ,	LT,	LU,	MC,	ΝL,	PL,	PT,	
		,		,	,	,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML ,	
				SN,														
AU 2005212510									AU 2	005-	2125	10		2	0050	210		
	AU 2005212510																	
CA	2554642 1720859			A1		2005	0825		CA 2	005-	2554	642		2	0050	210		
EP																		
	R:						CZ,											
						LU,	MC,	ΝL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	AL,	BA,	
				MK,														
	1946																	
									BR 2005-7617 JP 2006-552549									
	2006						2008											
	2006						2007				006-							
	2006		60		Α		2006											
KR	2007 8832	0275	11		A		2007			KR 2	006-	/183	41		2	0060	908	
KR	8832	36			BI		2009	0210			000	4000			0	0000	011	
NO	2006 2007	0040	7/		A		2006	1110		NO 2	006-	40//			2			
					Al		2007	0705		US 2	006-	5977	53		- 2	0060		
ORITY APPLN. INFO.:										GB 2	004-	3038	<i>c</i> 0		A 2	0040	211	
מם מים	OLIDO P	(C) :			C 7 C	ר עים רו	rr 1.4	2.24			005-				w 2	UU50	Z I U	
IEK S	CAS.	CASREACT 143:248292; MARPAT 143:248292																

GΙ

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [wherein Z = CH2 and derivs., NH and derivs., O, S; R, R1 AB = independently OH and derivs., (un)substituted hetero/aryl, arylalkyl, etc.; X = (un)substituted hetero/cycloalkyl, hetero/aryl; Q = linker of between 1 and 3 atoms length; Y = (un)substituted hetero/cycloalkyl, bridged hetero/cycloalkyl, hetero/aryl, fused aryl-heterocycloalkyl; and their pharmaceutically acceptable salts, esters and prodrugs] were prepared as CCR2 and CCR5 antagonists. For example, reacting [1-[2-(azepan-1-yl)ethyl]piperidin-4-yl]amine•3HCl (preparation given) and 4-(5-chlorobenzofuran-3-ylmethoxy)-1H-indole-2-carboxylic acid (preparation given) gave amide II in 57% yield. I had IC50 between 0.0003 and 10 $\mu\mathrm{M}$ and between 0.004 and 10 μM in CCR2 and CCR5 membrane binding assays. I are effective as dual CCR2 and CCR5 antagonists. I are useful for treating autoimmune and inflammatory diseases, HIV infection and AIDS. 863250-06-0P, 4-Isobutoxy-1H-indole-2-carboxylic acid ΤT N-[4-[2-(azepan-1-y1)ethy1]pheny1]amide 863252-49-7P, 4-(5-Chlorobenzofuran-3-ylmethoxy)-1H-indole-2-carboxylic acid N-[4-[2-(piperidin-1-yl)ethyl]phenyl]amide 863252-51-1P, 4-(5-Chlorobenzofuran-3-ylmethoxy)-1H-indole-2-carboxylic acid N-[4-[2-(4-hydroxypiperidin-1-yl)ethyl]phenyl]amideRL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(drug candidate; preparation of chemokine receptor antagonists, particularly 1H-indole-2-carboxylic acid N-(piperidin-4-yl)amides)

RN 863250-06-0 CAPLUS

(Uses)

CN 1H-Indole-2-carboxamide, N-[4-[2-(hexahydro-1H-azepin-1-yl)ethyl]phenyl]-4-(2-methylpropoxy)- (CA INDEX NAME)

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

RN 863252-49-7 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(5-chloro-3-benzofuranyl)methoxy]-N-[4-[2-(1-piperidinyl)ethyl]phenyl]- (CA INDEX NAME)

RN 863252-51-1 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(5-chloro-3-benzofuranyl)methoxy]-N-[4-[2-(4-hydroxy-1-piperidinyl)ethyl]phenyl]- (CA INDEX NAME)

$$CH_2$$
 CH_2
 CH_2

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

(4 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:780360 CAPLUS <<LOGINID::20091013>>

DOCUMENT NUMBER: 141:295859

TITLE: Preparation of N-aryl-1H-indole-2-carboxamides as

cytokine inhibitors

INVENTOR(S): Cirillo, Pier Francesco; Gao, Donghong Amy; Goldberg,

Daniel R.; Hammach, Abdelhakim; Hao, Ming-Hong; Kamhi, Victor Marc; Moss, Neil; Netherton, Matthew Russell; Qian, Kevin Chungeng; Ralph, Mark Stephen; Wu, Lifen;

Xiong, Zhaoming

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharmaceuticals, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 82 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DAT	TE APPL	ICATION NO.	DATE			
US 20040186114		0 - 0 0 - 0	004-789354	20040227			
US 7078419	B2 200	060718					
AU 2004264409	A1 200	050224 AU 2	004-264409	20040302			
CA 2518774	A1 200	050224 CA 2	004-2518774	20040302			
WO 2005016918	A2 200	050224 WO 2	004-US6264	20040302			
WO 2005016918	A3 200	050407					
W: AE, AG, AL,	AM, AT, AU	U, AZ, BA, BB,	BG, BR, BW, BY,	BZ, CA, CH,			
CN, CO, CR,	CU, CZ, DE	E, DK, DM, DZ,	EC, EE, EG, ES,	FI, GB, GD,			
GE, GH, GM,	HR, HU, II	D, IL, IN, IS,	JP, KE, KG, KP,	KR, KZ, LC,			
LK, LR, LS,	LT, LU, LV	V, MA, MD, MG,	MK, MN, MW, MX,	MZ, NA, NI,			
NO, NZ, OM,	PG, PH, PI	L, PT, RO, RU,	SC, SD, SE, SG,	SK, SL, SY,			
TJ, TM, TN,	TR, TT, T2	Z, UA, UG, US,	UZ, VC, VN, YU,	ZA, ZM, ZW			
RW: BW, GH, GM,	KE, LS, MV	W, MZ, SD, SL,	SZ, TZ, UG, ZM,	ZW, AM, AZ,			
BY, KG, KZ,	MD, RU, TJ	J, TM, AT, BE,	BG, CH, CY, CZ,	DE, DK, EE,			
ES, FI, FR,	GB, GR, HU	U, IE, IT, LU,	MC, NL, PL, PT,	RO, SE, SI,			

SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG BR 2004008228 20060221 BR 2004-8228 20040302 Α EP 1631567 20060308 EP 2004-775820 20040302 Α2 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK CN 1759114 Α 20060412 CN 2004-80006351 20040302 Τ JP 2006519861 20060831 JP 2006-508971 20040302 CN 101239972 Α 20080813 CN 2008-10083505 20040302 NZ 542775 20080829 NZ 2004-542775 20040302 Α ZA 2005006242 20060726 ZA 2005-6242 Α 20050804 IN 2005DN03676 20070824 IN 2005-DN3676 Α 20050819 US 20060235017 Α1 20061019 US 2006-426603 20060627 US 7335657 В2 20080226 PRIORITY APPLN. INFO.: US 2003-453364P Ρ 20030310 A1 20040227 US 2004-789354 CN 2004-80006351 A3 20040302 WO 2004-US6264 W 20040302

OTHER SOURCE(S): MARPAT 141:295859

AB Title compds. I [wherein Ar = (un)substituted aryl; Q = N, (un)substituted CH; W = N, CH; X = CH2, O, S, (un)substituted NH; Y = O, SOO-2, (un)substituted CH2, CH=CH, NH; R3-R5 = independently H, halo, alkyl; R6 = a bond, O, O(CH2)1-5, CO, NH, CONH, S, (un)substituted alkyl, alkenyl, acyl, heterocyclyl, aryl; R7 = H, alkyl; and pharmaceutically acceptable salts, acids, or isomers thereof] were prepared For example, a 9-step synthesis starting from 3-methyl-2-nitrophenol, di-Et oxalate, 5-tert-butyl-3-methanesulfonamido-2-methoxyaniline, 2,4-dichloropyrimidine, and 1-methylpiperazine gave II. I inhibit production of cytokines involved in inflammatory processes and are, thus, useful for treating diseases and pathol. conditions involving inflammation, such as

chronic inflammatory disease (no data). The compds. are also useful for treating diseases or conditions related to oncol. and anticoagulant or fibrinolytic therapy (no data). Also disclosed are processes for preparing these compds. and pharmaceutical compns. comprising them. ΤТ 761428-81-3P, 1-Methyl-7-(2-methylaminopyrimidin-4-yloxy)-1Hindole-2-carboxylic acid N-[5-tert-butyl-2-methoxy-3-(morpholin-4ylmethyl)phenyl]amide 761428-82-4P, 1-Methyl-7-(2-methylaminopyrimidin-4-yloxy)-1H-indole-2-carboxylic acid N-[5-tert-butyl-2-methoxy-3-(4-methylpiperazin-1-ylmethyl)phenyl]amide 761428-89-1P, 1-Methyl-7-[2-(4-methylpiperazin-1-yl)pyrimidin-4yloxy]-1H-indole-2-carboxylic acid N-[5-tert-butyl-2-methoxy-3-(pyrrolidin-1-ylmethyl)phenyl]amide 761429-51-0P, 7-[[2-(2-Dimethylaminoethylamino)pyrimidin-4-yl]oxy]-1-methyl-1H-indole-2-carboxylic acid N-[5-tert-butyl-2-methoxy-3-(pyrrolidin-1-ylmethyl)phenyl]amide 761429-52-1P, 7-[[2-(2-Dimethylaminoethylamino)pyrimidin-4-yl]oxy]-1-methyl-1H-indole-2-carboxylic acid N-[5-tert-butyl-2-methoxy-3-(morpholin-4-ylmethyl)phenyl]amide 761429-56-5P, 1-Methyl-7-[2-[(morpholin-4-yl)methyl]pyrimidin-4yloxy]-1H-indole-2-carboxylic acid N-[2-methoxy-3-(morpholin-4-ylmethyl)-5-trifluoromethylphenyl]amide 761429-57-6P, 1-Methyl-7-[2-(4-methylpiperazin-1-yl)pyrimidin-4yloxy]-1H-indole-2-carboxylic acid N-[2-methoxy-3-(morpholin-4-ylmethyl)-5-trifluoromethylphenyl]amide 761429-61-2P, 1-Methyl-7-[2-[(pyrrolidin-1-yl)methyl]pyridin-4vloxy]-1H-indole-2-carboxylic acid N-[2-methoxy-3-(morpholin-4-ylmethyl)-5-trifluoromethylphenyl] amide 761429-63-4P, 1-Methyl-7-[2-[(pyrrolidin-1-yl)methyl]pyrimidin-4yloxy]-1H-indole-2-carboxylic acid N-[2-methoxy-3-(pyrrolidin-1-ylmethyl)-5-trifluoromethylphenyl]amide 761429-64-5P, 7-[[2-[(Dimethylamino)methyl]pyrimidin-4-yl]oxy]-1methyl-1H-indole-2-carboxylic acid N-[2-methoxy-3-(4-methylpiperazin-1-ylmethyl)-5trifluoromethylphenyl]amide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (cytokine inhibitor; preparation of indolecarboxamides as cytokine inhibitors for treatment of inflammatory diseases, cancer, and other conditions) RN 761428-81-3 CAPLUS CN 1H-Indole-2-carboxamide, N-[5-(1,1-dimethylethyl)-2-methoxy-3-(4-indole-2-carboxamide)]morpholinylmethyl)phenyl]-1-methyl-7-[[2-(methylamino)-4-pyrimidinyl]oxy]-

(CA INDEX NAME)

CN 1H-Indole-2-carboxamide, N-[5-(1,1-dimethylethyl)-2-methoxy-3-[(4-methyl-1-piperazinyl)methyl]phenyl]-1-methyl-7-[[2-(methylamino)-4-pyrimidinyl]oxy]-(CA INDEX NAME)

RN 761428-89-1 CAPLUS

CN 1H-Indole-2-carboxamide, N-[5-(1,1-dimethylethyl)-2-methoxy-3-(1-pyrrolidinylmethyl)phenyl]-1-methyl-7-[[2-(4-methyl-1-piperazinyl)-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 761429-51-0 CAPLUS

CN 1H-Indole-2-carboxamide, 7-[[2-[[2-(dimethylamino)ethyl]amino]-4-pyrimidinyl]oxy]-N-[5-(1,1-dimethylethyl)-2-methoxy-3-(1-pyrrolidinylmethyl)phenyl]-1-methyl- (CA INDEX NAME)

RN 761429-52-1 CAPLUS

CN 1H-Indole-2-carboxamide, 7-[[2-[[2-(dimethylamino)ethyl]amino]-4-

 $\label{lem:condition} $$ \operatorname{pyrimidinyl}] \operatorname{oxy} - N - [5 - (1, 1 - \operatorname{dimethylethyl}) - 2 - \operatorname{methoxy} - 3 - (4 - \operatorname{morpholinylmethyl}) \operatorname{phenyl}] - 1 - \operatorname{methyl} - (CA INDEX NAME)$

RN 761429-56-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[2-methoxy-3-(4-morpholinylmethyl)-5-(trifluoromethyl)phenyl]-1-methyl-7-[[2-(4-morpholinylmethyl)-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 761429-57-6 CAPLUS

CN 1H-Indole-2-carboxamide, N-[2-methoxy-3-(4-morpholinylmethyl)-5-(trifluoromethyl)phenyl]-1-methyl-7-[[2-(4-methyl-1-piperazinyl)-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 761429-61-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[2-methoxy-3-(4-morpholinylmethyl)-5-(trifluoromethyl)phenyl]-1-methyl-7-[[2-(1-pyrrolidinylmethyl)-4-pyridinyl]oxy]- (CA INDEX NAME)

RN 761429-63-4 CAPLUS

CN 1H-Indole-2-carboxamide, N-[2-methoxy-3-(1-pyrrolidinylmethyl)-5-(trifluoromethyl)phenyl]-1-methyl-7-[[2-(1-pyrrolidinylmethyl)-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 761429-64-5 CAPLUS

CN 1H-Indole-2-carboxamide, 7-[[2-[(dimethylamino)methyl]-4-pyrimidinyl]oxy]-N-[2-methoxy-3-[(4-methyl-1-piperazinyl)methyl]-5-(trifluoromethyl)phenyl]-1-methyl- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:745036 CAPLUS <<LOGINID::20091013>>

DOCUMENT NUMBER: 130:3775
TITLE: Preparation of

N-[2-(4-

carboxamidocyclohexyl)ethyl]tetrahydroisoquinolines as

dopamine D3 receptor ligands

INVENTOR(S): Branch, Clive Leslie; Johnson, Christopher Norbert;

Stemp, Geoffrey

PATENT ASSIGNEE(S): Smithkline Beecham PLC, UK SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
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                                           APPLICATION NO. DATE
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     WO 9850364
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              KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
              NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
              UA, UG, US, UZ, VN, YU, ZW
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     AU 725491
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     EP 983244
                                                                         19980427
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HU 2000003608 A2 20010328 HU 2000-3608
HU 2000003608 A3 20010628
BR 9809591 A 20010911 BR 1998-9591
JP 2002501506 T 20020115 JP 1998-547712
ZA 9803659 A 19991101 ZA 1998-3659
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A 19970503
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                                                GB 1997-8976 A 19970503
GB 1997-23294 A 19971104
WO 1998-EP2583 W 19980427
US 1999-423163 B1 19991102
PRIORITY APPLN. INFO.:
                          MARPAT 130:3775
OTHER SOURCE(S):
     R1CH2CH2ZNR2COR (Z = 1, 4-cyclohexylene)[I; R = (un) substituted Ph,
     -heteroaryl, (E)-CH:CHPh, etc.; R1 = benzene ring-(un)substituted
     1,2,3,4-tetrahydroisoquinolin-2-yl; R2 = H or alkyl] were prepared Thus,
     8-(2-hydroxyethyl)-1,4-dioxaspiro[4.5]decane was oxidized and the product
     reductively aminated by 7-cyano-1,2,3,4-tetrahydroisoquinoline to give,
     after deprotection and reductive amination, cis- and
     trans-2-[2-(4-aminocyclohexyl)ethyl]-7-cyano-1,2,3,4-
     tetrahydroisoquinoline. The latter mixture was treated with
     indole-2-carboxylic acid under amidation conditions to give trans-I (R =
     2-indolyl, R1 = 7-cyano-1,2,3,4-tetrahydroisoquinolin-2-yl, R2 = H). Data
     for biol. activity of I were given.
ΤТ
     215802-29-2P
                    215802-51-0P 215803-53-5P
     215803-62-6P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (preparation of N-{2-(4-carboxamidocyclohexyl)ethyl]tetrahydroisoquinolines
         as dopamine D3 receptor ligands)
RN
     215802-29-2 CAPLUS
     1H-Indole-2-carboxamide, N-[trans-4-[2-(7-cyano-3,4-dihydro-2(1H)-
CN
     isoquinolinyl)ethyl]cyclohexyl]-5-methoxy- (CA INDEX NAME)
```

Relative stereochemistry.

RN 215802-51-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(7-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-6-methoxy- (CA INDEX NAME)

Relative stereochemistry.

RN 215803-53-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(6-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-5-methoxy- (CA INDEX NAME)

Relative stereochemistry.

RN 215803-62-6 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(6-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-6-methoxy- (CA INDEX NAME)

Relative stereochemistry.

OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS

RECORD (19 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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NEWS 5 AUG 24 CA/CAplus enhanced with legal status information for U.S. patents

NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY

NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4, AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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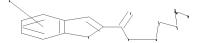
Please note that search-term pricing does apply when conducting SmartSELECT searches.

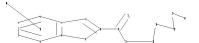
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http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Program Files\STNEXP\Queries\10-597,753a.str





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ring nodes :
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chain bonds :
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ring bonds :
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exact/norm bonds :
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containing 1 :
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Match level :

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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

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48 ANSWERS

100.0% PROCESSED 1173003 ITERATIONS

48 ANSWERS

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COST IN U.S. DOLLARS SINCE FILE TOTAL

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FULL ESTIMATED COST 192.67 192.89

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FILE LAST UPDATED: 13 Oct 2009 (20091013/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 14 L5 8 L4

=> d ibib abs hitstr 1-YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1045236 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 149:307680

TITLE: Preparation of N-piperidinylethylcyclohexyl indolecarboxamide derivatives as inhibitors of

chemokine receptors or macrophage protein

chemokine receptors or macrophage protein

INVENTOR(S): Hersperger, Rene; Janser, Philipp; Miltz, Wolfgang

PATENT ASSIGNEE(S): Novartis AG, Switz. SOURCE: PCT Int. Appl., 70pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE			
WO 2008101905	A1 20080828	WO 2008-EP51951	20080218			
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CA, CH, CN,	CO, CR, CU, CZ,	DE, DK, DM, DO, DZ, EC,	EE, EG, ES,			
FI, GB, GD,	GE, GH, GM, GT,	HN, HR, HU, ID, IL, IN,	IS, JP, KE,			
KG, KM, KN,	KP, KR, KZ, LA,	LC, LK, LR, LS, LT, LU,	LY, MA, MD,			
ME, MG, MK,	MN, MW, MX, MY,	MZ, NA, NG, NI, NO, NZ,	OM, PG, PH,			
PL, PT, RO,	RS, RU, SC, SD,	SE, SG, SK, SL, SM, SV,	SY, TJ, TM,			
TN, TR, TT,	TZ, UA, UG, US,	UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG,	CH, CY, CZ, DE,	DK, EE, ES, FI, FR, GB,	GR, HR, HU,			
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GΙ

AB Title compds. represented by the formula I [wherein X = CH2 or NH; n = 1 or 2; R = (un)substituted (hetero)alkyl or (hetero)aryl; and pharmaceutically acceptable salts, esters or prodrugs thereof] were prepared as inhibitors of chemokine receptors or macrophage protein. The process of preparation of the invention compds. was described, 29 final compound were obtained, such as II. I had IC50 values between 0.0002 and 10 μ M in CCR2/CCR5 membrane and functional assay. Thus, I and their pharmaceutical compns. are useful for the treatment of an autoimmune or inflammatory disease or condition.

IT 1050425-64-3P

RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-[(piperidinyl)ethylcyclohexyl] indole-2-carboxamide derivs. as inhibitors of chemokine receptors or macrophage protein)

RN 1050425-64-3 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(cyclobutylmethoxy)-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-, hydrochloride (1:1) (CA INDEX NAME)

● HCl

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ΙT
     1050424-98-0P
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                                      1050425-01-8P
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     1050425-59-6P
                     1050425-61-0P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-[(piperidinyl)ethylcyclohexyl] indole-2-carboxamide derivs. as inhibitors of chemokine receptors or macrophage protein) 1050424-98-0 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(cyclobutylmethoxy)-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(tetrahydro-3-furanyl)methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-01-8 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(3-furanylmethoxy)-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-03-0 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(2-chloro-4-thiazolyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-05-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(6-methoxy-3-pyridinyl)methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-08-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(4,5,6,7-tetrahydro-4-oxo-3-

benzofuranyl)methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-12-1 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(4,5,6,7-tetrahydro-6,6-dimethyl-4-oxo-3-benzofuranyl)methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-15-4 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[(3S)-2,3-dihydro-3-benzofurany1]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-

piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-18-7 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(2,3-dihydro-6-methoxy-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-21-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(4-methoxy-3-benzofuranyl)methoxy]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-23-4 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(4,6-difluoro-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-24-5 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(5-chloro-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-26-7 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(6-methoxy-3-benzofuranyl)methoxy]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-29-0 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(6-ethoxy-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

RN 1050425-31-4 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[6-(cyclopropylmethoxy)-3-benzofuranyl]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



RN 1050425-34-7 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[6-(2-ethoxyethoxy)-3-benzofuranyl]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

Absolute stereochemistry.

OEt

RN 1050425-36-9 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-(2-methoxy-1-methylethoxy)-3-benzofuranyl]methoxy]- (CA INDEX NAME)

PAGE 1-B

OMe

RN 1050425-37-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-[2-(1-methylethoxy)ethoxy]-3-benzofuranyl]methoxy]- (CA INDEX NAME)

RN 1050425-40-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-(3-methoxypropoxy)-3-benzofuranyl]methoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-43-8 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[[6-(3-ethoxypropoxy)-3-benzofuranyl]methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]- (CA INDEX NAME)

RN 1050425-45-0 CAPLUS

(CH₂)3

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[[6-[[(3S)-tetrahydro-3-furanyl]oxy]-3-benzofuranyl]methoxy]- (CA INDEX NAME)



RN 1050425-48-3 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(6-fluoro-3-benzofuranyl)methoxy]-N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-(CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-51-8 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[(7-methoxy-3-benzofuranyl)methoxy]-(CA INDEX NAME)

RN 1050425-53-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(2-methoxyphenyl)ethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-54-1 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(3-methoxyphenyl)ethoxy]- (CA INDEX NAME)

RN 1050425-55-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(4-methoxyphenyl)ethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-56-3 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(2-methoxy-3-pyridinyl)ethoxy]- (CA INDEX NAME)

RN 1050425-59-6 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(6-methoxy-3-pyridinyl)ethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 1050425-61-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[cis-4-hydroxy-4-[2-[(3S,4S)-4-hydroxy-3-methyl-1-piperidinyl]ethyl]cyclohexyl]-4-[2-(6-methoxy-3-benzofuranyl)ethoxy]-(CA INDEX NAME)

PAGE 1-B

_ OMe

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:944130 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 147:300997

TITLE: Benzoyl-piperidine derivatives as 5HT2/D3 modulators

and their preparation, pharmaceutical compositions and

use in the treatment of CNS disorders

INVENTOR(S): Gobbi, Luca; Jaeschke, Georg; Luebbers, Thomas; Roche,

Olivier; Rodriguez Sarmiento, Rosa Maria; Steward,

Lucinda

PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.

SOURCE: PCT Int. Appl., 164pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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			GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚM,	KN,
			KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
			MN,	MW.	MX,	MY.	MZ,	NA.	NG.	NI,	NO.	NZ,	OM,	PG,	PH,	PL,	PT,	RO,

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PRIORITY APPLN. INFO.:
                                             EP 2006-110112
                                                                     20060217
                                             EP 2006-112464
                                                                  Α
                                                                     20060411
                                             WO 2007-EP51160
                                                                  W
                                                                     20070207
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OTHER SOURCE(S): MARPAT 147:300997

AB The invention relates to compds. of the general formula I as dual modulators of the 5-HT2a and D3 receptors useful against CNS disorders. Compds. of formula I wherein A is (un)substituted aryl and (un)substituted 5- to 6-membered heteroaryl; n is 1, 2, 3, and 4; r is 0, 1, 2, and 3; Z is cyclopropane, cyclobutane, cyclopentane, and cyclohexane; R1 is C2-6 (aryl)alkenyl, C2-6 (aryl)alkynyl, (un)substituted C1-6 alkyl, C1-6 alkoxy, (un)substituted C3-10 cycloalkyl, etc.; R2 is H, OH, C1-6 alkyl, and halo; and their pharmaceutically acceptable salts thereof are claimed.

Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their 5HT2a and D3 modulatory activity (some data given). Examples of formulation is also given.

IT 946596-46-9P 946596-47-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of benzoyl-piperidine derivs. as 5HT2/D3 modulators useful in the treatment of CNS disorders)

RN 946596-46-9 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-[4-(4-fluorobenzoy1)-1-piperidinyl]ethyl]cyclohexyl]-5-(trifluoromethoxy)- (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-B

RN 946596-47-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-[4-(4-fluorobenzoy1)-1-piperidiny1]ethy1]cyclohexy1]-5-methoxy- (CA INDEX NAME)

Relative stereochemistry.

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT: 1

(1 CITINGS)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER: 145:124467

TITLE: Preparation of pyridine carboxamides as CSF-1R

inhibitors for treating cancer

INVENTOR(S): Almeida, Lynsie; Aquila, Brian; Cook, Don; Cowen,

Scott; Dakin, Les; Ezhuthachan, Jayachandran;

Ioannidis, Stephanos; Lee, Stephen; Lyne, Paul; Pontz,

Timothy; Scott, David; Su, Mei; Zheng, Xiaolan Astrazeneca AB, Swed.; Astrazeneca UK Limited

PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 183 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	TENT	NO.			KIND DATE					APPL	ICAT	ION I		DATE				
	O 2006067445									WO 2	005-		20051222					
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		GM,	ΚE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	
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PRIORIT:						US 2	004-	6391	77P]	P 2	0041	222					
OTHER SOURCE(S):						CASREACT 145:124467; MARPAT 145:124467												

GΙ

$$\begin{bmatrix} \mathbb{R}^{1} \end{bmatrix}_{n}$$

The title compds. I [A = Ph, 5 or 6 membered heterocyclyl, optionally]AΒ fused to a 5 or 6 membered carbocyclyl or heterocyclyl, wherein if said heterocyclyl ring contains an NH moiety that N may be optionally substituted by R5; R5 = alkyl, alkanoyl, Bn, carbamoyl, etc.; each R1 = independently halo, NO2, CN, OH, NH2, (un) substituted alk(en)yl, N,N'-dialkylureido etc.; n = 0-4; R2 = H, halo, (un)substituted alkanoyl, etc.; R3 = halo, OH, CN, Me, OMe, CH2OH; R4 = halo, ureido, sulfamoyl, carboxy, etc.; m = 0-4; with the exclusion of certain compds.] which possess colony stimulating factor 1 receptor (CSF-1R) kinase inhibitory activity and are accordingly useful for their anti cancer activity and thus in methods of treatment of the human or animal body, were prepared Thus, reacting 5-amino-2-methyl-N-(pyridin-3-yl)benzamide (preparation given) with 3-chlorobenzoic acid in DMF in the presence of HATU afforded II which showed IC50 of 12 μ M when tested in CSF-1R in vitro AlphaScreen assay. The invention also relates to processes for the manufacture of said compds. I, to pharmaceutical compns. containing them and to their use in the manufacture

of medicaments of use in the production of an anti-cancer effect in a warm blooded animal such as man.

IT 896157-20-3P, 5-Methoxy-N-[4-Methyl-3-[[(pyridin-3-yl)amino]carbonyl]phenyl]-1H-indole-2-carboxamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of pyridine carboxamides as CSF-1R inhibitors for treating cancer)

RN 896157-20-3 CAPLUS

CN 1H-Indole-2-carboxamide, 5-methoxy-N-[4-methyl-3-[(3-pyridinylamino)carbonyl]phenyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(5 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:631355 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 145:103567

TITLE: Preparation of pyridine carboxamides as anti-cancer

agents

INVENTOR(S): Almeida, Lynsie; Aquila, Brian; Cook, Don; Cowen,

Scott; Dakin, Les; Ezhuthachan, Jayachandran; Ioannidis, Stephanos; Lee, John W.; Lee, Stephen; Lyne, Paul Dermot; Pontz, Timothy; Scott, David; Su,

Mei; Zheng, Xiaolan

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited

SOURCE: PCT Int. Appl., 186 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA.	TENT :	NO.			KIN	D	DATE				LICAT				D.	DATE				
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CN 101128454							2008	0220		CN	2005-	8004	8590		2		-			
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OTHER SOURCE(S): CASREACT 145:103567; MARPAT 145:103567

GΙ

$$\begin{bmatrix} \mathbb{R}^2 \\ \mathbb{N} \\ \mathbb{N} \\ \mathbb{N} \end{bmatrix} = \begin{bmatrix} \mathbb{R}^4 \end{bmatrix}_{\mathfrak{m}}$$

The title compds. I [A = carbocyclyl, heterocyclyl, wherein if said AΒ heterocyclyl ring contains an NH moiety that N may be optionally substituted by R5; R5 = alkyl, alkanoyl, Bn, carbamoyl, etc.; each R1 = independently halo, NO2, CN, OH, NH2, (un) substituted alk(en)yl, N,N'-dialkylureido etc.; n=0-4; R2=H, halo, (un)substituted alkanoyl, etc.; R3= halo, OH, CN, Me, OMe, CH2OH; R4= halo, ureido, sulfamoyl, carboxy, etc.; m = 0-4; with the exclusion of certain compds.] which possess B-Raf inhibitory activity and are accordingly useful for their anti cancer activity and thus in methods of treatment of the human or animal body, were prepared Thus, reacting 5-amino-2-methyl-N-(pyridin-3-yl)benzamide (preparation given) with 3-chlorobenzoic acid in DMF in the presence of HATU afforded II which showed IC50 of 0.057 μM when tested in B-Raf in vitro ELISA assay. The invention also relates to processes for the manufacture of said compds. I, to pharmaceutical compns. containing them and to their use in the manufacture of medicaments of use in the production of an anti-cancer effect in a warm blooded animal such as man.

IT 896157-20-3P, 5-Methoxy-N-[4-Methyl-3-[[(pyridin-3-yl)amino]carbonyl]phenyl]-1H-indole-2-carboxamide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of pyridine carboxamides as B-Raf inhibitors for treating cancer)

RN 896157-20-3 CAPLUS

CN 1H-Indole-2-carboxamide, 5-methoxy-N-[4-methyl-3-[(3-pyridinylamino)carbonyl]phenyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN L5

ACCESSION NUMBER: 2005:902881 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 143:248292

Preparation of 1H-indole-2-carboxylic acid TITLE:

N-(piperidin-4-yl) amides and related derivatives as

chemokine receptor, particularly CCR2 and CCR5

antagonists

Hersperger, Rene; Janser, Philipp; Pfenninger, Emil; INVENTOR(S):

Wuethrich, Hans Juerg; Miltz, Wolfgang

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.

PCT Int. Appl., 240 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.					KIND DATE			-	APPLICATION NO. DATE								
WO	2005 2005	0779	32		A2		2005	0825	WO 2005-EP1362 20								210	
	₩:	AE, CN, GE, LK, NO,	AG, CO, GH, LR, NZ,	AL, CR, GM, LS, OM,	AM, CU, HR, LT, PG,	AT, CZ, HU, LU, PH,	AU, DE, ID, LV, PL,	AZ, DK, IL, MA, PT,	BA, DM, IN, MD, RO,	DZ, IS, MG, RU,	BG, EC, JP, MK, SC,	EE, KE, MN, SD,	EG, KG, MW, SE,	ES, KP, MX, SG,	FI, KR, MZ, SK,	GB, KZ, NA, SL,	GD, LC, NI, SY,	CD 5
	RW:	BW, AZ, EE, RO,	GH, BY, ES, SE,	GM, KG, FI, SI,	KE, KZ, FR,	LS, MD, GB, TR,	MW, RU, GR,	MZ, TJ, HU,	NA, TM, IE,	SD, AT, IS,	UZ, SL, BE, IT, CI,	SZ, BG, LT,	TZ, CH, LU,	UG, CY, MC,	ZM, CZ, NL,	ZW, DE, PL,	AM, DK, PT,	SM
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	2554	642			A1		2005	0825	1	CA 2	2005-	2554	642		2	0050	210	
EP	1720	859			A2		2006	1115		EP 2	2005-	7073	21		2	0050	210	
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				LI, MK,		LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	AL,	BA,	
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BR	1946 2005 2007	0076	17		Α		2007	0703		BR 2	2005– 2005–	7617			2	0050	210	
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ZA	2006	0061	80		Α		2008	0528		ZA 2	2006-	6180			2	0060	726	
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									,	WO 2	2005-	EP13	62		W 2	0050	210	
OTHER SO	OURCE	(S):			CAS:	REAC	T 14	3:24	3292	; MA	ARPAT	143	:248	292				

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [wherein Z = CH2 and derivs., NH and derivs., O, S; R, R1 AΒ = independently OH and derivs., (un)substituted hetero/aryl, arylalkyl, etc.; X = (un)substituted hetero/cycloalkyl, hetero/aryl; Q = linker of between 1 and 3 atoms length; Y = (un)substituted hetero/cycloalkyl, bridged hetero/cycloalkyl, hetero/aryl, fused aryl-heterocycloalkyl; and their pharmaceutically acceptable salts, esters and prodrugs] were prepared as CCR2 and CCR5 antagonists. For example, reacting [1-[2-(azepan-1-yl)ethyl]piperidin-4-yl]amine•3HCl (preparation given) and 4-(5-chlorobenzofuran-3-ylmethoxy)-1H-indole-2-carboxylic acid (preparation given) gave amide II in 57% yield. I had IC50 between 0.0003 and 10 μM and between 0.004 and 10 μM in CCR2 and CCR5 membrane binding assays. I are effective as dual CCR2 and CCR5 antagonists. I are useful for treating autoimmune and inflammatory diseases, HIV infection and AIDS. ΙT 863250-06-0P, 4-Isobutoxy-1H-indole-2-carboxylic acid N-[4-[2-(azepan-1-yl)ethyl]phenyl]amide863250-07-1P, trans-4-Isobutoxy-1H-indole-2-carboxylic acid [4-[[methyl(tetrahydropyran-4-yl)amino]methyl]cyclohexyl]amide 863250-08-2P, 4-Isobutoxy-1H-indole-2-carboxylic acid N-[4-[[methyl(tetrahydropyran-4-yl)amino]methyl]phenyl]amide 863250-09-3P, 4-Isobutoxy-1H-indole-2-carboxylic acid N-[4-[(R)-1-[methyl(tetrahydropyran-4-yl)amino]ethyl]phenyl]amide863252-49-7P, 4-(5-Chlorobenzofuran-3-ylmethoxy)-1H-indole-2carboxylic acid N-[4-[2-(piperidin-1-yl)ethyl]phenyl]amide 863252-51-1P, 4-(5-Chlorobenzofuran-3-ylmethoxy)-1H-indole-2carboxylic acid N-[4-[2-(4-hydroxypiperidin-1-yl)ethyl]phenyl]amide 863252-87-3P, 4-Isobutoxy-1H-indole-2-carboxylic acid [4-[[methyl(tetrahydropyran-4-yl)amino]methyl]cyclohexyl]amide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (drug candidate; preparation of chemokine receptor antagonists, particularly 1H-indole-2-carboxylic acid N-(piperidin-4-yl)amides) RN 863250-06-0 CAPLUS

1H-Indole-2-carboxamide, N-[4-[2-(hexahydro-1H-azepin-1-yl)ethyl]phenyl]-4-

(2-methylpropoxy) - (CA INDEX NAME)

RN 863250-07-1 CAPLUS
CN 1H-Indole-2-carboxamide, 4-(2-methylpropoxy)-N-[trans-4[[methyl(tetrahydro-2H-pyran-4-yl)amino]methyl]cyclohexyl]- (CA INDEX NAME)

Relative stereochemistry.

CN

OBu-i

RN 863250-08-2 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(2-methylpropoxy)-N-[4-[[methyl(tetrahydro-2H-pyran-4-yl)amino]methyl]phenyl]- (CA INDEX NAME)

RN 863250-09-3 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(2-methylpropoxy)-N-[4-[(1R)-1-[methyl(tetrahydro-2H-pyran-4-yl)amino]ethyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 863252-49-7 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(5-chloro-3-benzofuranyl)methoxy]-N-[4-[2-(1-piperidinyl)ethyl]phenyl]- (CA INDEX NAME)

RN 863252-51-1 CAPLUS

CN 1H-Indole-2-carboxamide, 4-[(5-chloro-3-benzofuranyl)methoxy]-N-[4-[2-(4-hydroxy-1-piperidinyl)ethyl]phenyl]- (CA INDEX NAME)

$$\begin{array}{c} \text{CH}_2 \\ \text{O} \\ \text{O} \\ \text{O} \\ \text{C} \\ \text{NH} \end{array} \begin{array}{c} \text{CH}_2 \\ \text{CH}_2 \\ \text{CH}_2 \\ \text{OH} \end{array}$$

RN 863252-87-3 CAPLUS

CN 1H-Indole-2-carboxamide, 4-(2-methylpropoxy)-N-[4-[[methyl(tetrahydro-2H-pyran-4-yl)amino]methyl]cyclohexyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

(4 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:916840 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 142:85848

TITLE: A novel class of achiral seco-analogs of CC-1065 and

the duocarmycins: design, synthesis, DNA binding, and

anticancer properties

AUTHOR(S): Kupchinsky, Stanley; Centioni, Sara; Howard, Tiffany;

Trzupek, John; Roller, Shane; Carnahan, Virginia; Townes, Heather; Purnell, Bethany; Price, Carly; Handl, Heather; Summerville, Kaitlin; Johnson, Kimberly; Toth, James; Hudson, Stephen; Kiakos,

Konstantinos; Hartley, John A.; Lee, Moses Department of Chemistry, Furman University,

Greenville, SC, 29613, USA

SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(23),

6221-6236

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

CORPORATE SOURCE:

OTHER SOURCE(S): CASREACT 142:85848

GΙ

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The synthesis, DNA binding properties, and in vitro and in vivo anticancer activity of fifteen achiral seco-cyclopropylindoline (or achiral seco-CI) analogs of CC-1065 and the duocarmycins are described. The achiral seco-CI analogs contain a 4-hydroxyphenethyl halide moiety that is attached to a wide range of indole, benzimidazole, pyrrole, and pyridyl-containing noncovalent binding components. The 4-hydroxyphenethyl halide moiety represents the simplest mimic of the seco-cyclopropylpyrroloindoline (seco-CPI) pharmacophore found in the natural products, and it lacks a chiral center. The sequence and minor groove specificity of the achiral compds. was ascertained using a Taq DNA polymerase stop assay and a thermal induced DNA cleavage experiment using either a fragment of pBR322 or pUC18 plasmid DNA. For example, seco-CI-InBf (I) and seco-CI-TMI (II) demonstrated specificity for AT-rich sequences, particularly by reacting with the underlined adenine-N3 position of 5'-AAAA(865)-3'. This is also the sequence that CC-1065 and adozelesin prefer to alkylate. The achiral seco-CI compds. were subjected to cytotoxicity studies against several human (K562, LS174T, PC3, and MCF-7) and murine cancer cell lines (L1210 and P815). Following continuous drug exposure, the achiral compds. were found to be cytotoxic, with IC50 values in the μM range. The carbamate protected compound III was significantly less cytotoxic than agent II, supporting the hypothesis that loss of HCl and formation of a spiro[2,5]cyclopropylcyclohexadienone intermediate is necessary for biol. activity. The achiral seco-CI compds. I and II were submitted to the National Cancer Institute for further cytotoxicity screening against a panel of 60 different human cancer cell lines. Both compds. showed significant activity, particularly against several solid tumor cell lines. Flow cytometry studies of P815 cells that were incubated with compound 5c at its IC50 concentration for 24 h showed induction

of apoptosis in a large percentage of cells. Compds. I and II were selected by the NCI for an in vivo anticancer hollow-fiber test, and received composite scores of 18 and 22, resp. These two compds. were subsequently evaluated for in vivo anticancer activity against the growth of a human advanced stage SC UACC-257 melanoma in skid mice. At a dose of 134 mg/kg administered IP, compound II gave a T/C value of 40% (for day 51),

and the median number of days of doubling tumor growth was 27.7, vs. 15.8 for untreated animals. For compound I, at 200 mg/kg, the T/C was 58% and the median number of days of doubling tumor growth was 20.0 vs. 8.7 for untreated animals. At these doses no toxicity or weight loss was observed for either compound Furthermore, compound II was not toxic to murine bone marrow cell growth in culture, at a dose that was toxic for the previously reported seco-CBI (cyclopropylbenzoindoline)-TMI (4).

IT 817623-44-2P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(design, synthesis, DNA binding, and anticancer properties of achiral seco-analogs of CC-1065 and the duocarmycins)

RN 817623-44-2 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-methyl-,

4-(2-chloroethyl)-3-[[(5,6,7-trimethoxy-1H-indol-2-

yl)carbonyl]amino]phenyl ester (CA INDEX NAME)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS

RECORD (10 CITINGS)

REFERENCE COUNT: 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:780360 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 141:295859

TITLE: Preparation of N-aryl-1H-indole-2-carboxamides as

cytokine inhibitors

INVENTOR(S): Cirillo, Pier Francesco; Gao, Donghong Amy; Goldberg,

Daniel R.; Hammach, Abdelhakim; Hao, Ming-Hong; Kamhi, Victor Marc; Moss, Neil; Netherton, Matthew Russell; Qian, Kevin Chungeng; Ralph, Mark Stephen; Wu, Lifen;

Xiong, Zhaoming

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharmaceuticals, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 82 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
US 20040186114 US 7078419	A1 B2	20040923	US 2004-789354	20040227			
AU 2004264409	A1	20050224	AU 2004-264409	20040302			
CA 2518774 WO 2005016918	A1 A2	20050224 20050224	CA 2004-2518774 WO 2004-US6264	20040302 20040302			
WO 2005016918	A3	20050407		D7 C7 CII			

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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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     BR 2004008228
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PRIORITY APPLN. INFO.:
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                                                                  Ρ
                                                                     20030310
                                             US 2004-789354
                                                                  A1 20040227
                                             CN 2004-80006351
                                                                  A3 20040302
                                             WO 2004-US6264
                                                                  W 20040302
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OTHER SOURCE(S): MARPAT 141:295859

AB Title compds. I [wherein Ar = (un)substituted aryl; Q = N, (un)substituted CH; W = N, CH; X = CH2, O, S, (un)substituted NH; Y = O, SO0-2, (un)substituted CH2, CH=CH, NH; R3-R5 = independently H, halo, alkyl; R6 = a bond, O, O(CH2)1-5, CO, NH, CONH, S, (un)substituted alkyl, alkenyl,

II

acyl, heterocyclyl, aryl; R7 = H, alkyl; and pharmaceutically acceptable salts, acids, or isomers thereof] were prepared For example, a 9-step synthesis starting from 3-methyl-2-nitrophenol, di-Et oxalate, 5-tert-butyl-3-methanesulfonamido-2-methoxyaniline, 2,4-dichloropyrimidine, and 1-methylpiperazine gave II. I inhibit production of cytokines involved in inflammatory processes and are, thus, useful for treating diseases and pathol. conditions involving inflammation, such as chronic inflammatory disease (no data). The compds. are also useful for treating diseases or conditions related to oncol. and anticoagulant or fibrinolytic therapy (no data). Also disclosed are processes for preparing these compds. and pharmaceutical compns. comprising them.

IT 761428-77-7P, 1-Methyl-7-(2-methylaminopyrimidin-4-yloxy)-1H indole-2-carboxylic acid N-[5-tert-butyl-2-methoxy-3-[[2-(morpholin-4-yl)ethyl]carbamoyl]phenyl]amide 761428-91-5P,
 1-Methyl-7-(2-methylaminopyrimidin-4-yloxy)-1H-indole-2-carboxylic acid
 N-[5-tert-butyl-2-methoxy-3-[[2-(morpholin-4-yl)ethyl]amino]phenyl]amide
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(cytokine inhibitor; preparation of indolecarboxamides as cytokine inhibitors for treatment of inflammatory diseases, cancer, and other conditions)

RN 761428-77-7 CAPLUS

CN 1H-Indole-2-carboxamide, N-[5-(1,1-dimethylethyl)-2-methoxy-3-[[2-(4-morpholinyl)ethyl]amino]carbonyl]phenyl]-1-methyl-7-[[2-(methylamino)-4-pyrimidinyl]oxy]- (CA INDEX NAME)

RN 761428-91-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[5-(1,1-dimethylethyl)-2-methoxy-3-[[2-(4-morpholinyl)ethyl]amino]phenyl]-1-methyl-7-[[2-(methylamino)-4-pyrimidinyl]oxy]- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

REFERENCE COUNT: 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:745036 CAPLUS <<LOGINID::20091014>>

DOCUMENT NUMBER: 130:3775

TITLE: Preparation of

N - [2 - (4 -

carboxamidocyclohexyl)ethyl]tetrahydroisoquinolines as

dopamine D3 receptor ligands

INVENTOR(S): Branch, Clive Leslie; Johnson, Christopher Norbert;

Stemp, Geoffrey

PATENT ASSIGNEE(S): Smithkline Beecham PLC, UK

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

						KIND DATE													
										WO 1998-EP2583									
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			NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG	, SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,	
			UA,	UG,	US,	UZ,	VN,	YU,	ZW										
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			FΙ,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	
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A	AU 9876518					A		1998	1127		AU :	1998-	7651	8	19980427				
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E	EP 983244				A1		2000	0308		EP :	1998-	9242	62		1	9980	427		
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		9902				Τ2						1999-					9980	427	
		2000							HU 2000-3608						19980427				
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OTHER SOURCE(S): MARPAT 130:3775

AB R1CH2CH2ZNR2COR (Z = 1,4-cyclohexylene)[I; R = (un)substituted Ph, -heteroaryl, (E)-CH:CHPh, etc.; R1 = benzene ring-(un)substituted 1,2,3,4-tetrahydroisoquinolin-2-yl; R2 = H or alkyl] were prepared Thus, 8-(2-hydroxyethyl)-1,4-dioxaspiro[4.5]decane was oxidized and the product reductively aminated by 7-cyano-1,2,3,4-tetrahydroisoquinoline to give, after deprotection and reductive amination, cis- and trans-2-[2-(4-aminocyclohexyl)ethyl]-7-cyano-1,2,3,4-

tetrahydroisoquinoline. The latter mixture was treated with indole-2-carboxylic acid under amidation conditions to give trans-I (R = 2-indoly1, R1 = 7-cyano-1,2,3,4-tetrahydroisoquinolin-2-yl, R2 = H). Data for biol. activity of I were given.

IT 215802-29-2P 215802-51-0P 215803-53-5P 215803-62-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of $N-\{2-(4-carboxamidocyclohexyl)ethyl]$ tetrahydroisoquinolines as dopamine D3 receptor ligands)

RN 215802-29-2 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(7-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-5-methoxy- (CA INDEX NAME)

Relative stereochemistry.

RN 215802-51-0 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(7-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-6-methoxy- (CA INDEX NAME)

Relative stereochemistry.

RN 215803-53-5 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(6-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-5-methoxy- (CA INDEX NAME)

Relative stereochemistry.

RN 215803-62-6 CAPLUS

CN 1H-Indole-2-carboxamide, N-[trans-4-[2-(6-cyano-3,4-dihydro-2(1H)-isoquinolinyl)ethyl]cyclohexyl]-6-methoxy- (CA INDEX NAME)

Relative stereochemistry.

OS.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS

RECORD (19 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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